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Docket No. F-8969

Ser. No. 10/575,808

AMENDMENTS TO THE CLAIMS:

Please replace the claims with the claims provided in the listing below wherein status, amendments, additions and cancellations are indicated.

1. (Currently Amended) A method of operating a projection-type system configured to pass light emitted from a high-pressure discharge lamp lit by d.c. lighting through divided plural color segments of a color filter sequentially to project an image onto a screen, characterized by comprising:

superimposing a pulse current on a d.c. lamp current in synchronism with at least one specific color segment of the color segments, wherein:

a pulse repetition period (ts) of the pulse current (P) is within a range from 0.2 msec to 20 msec;

a ratio (Ip/Io) of a mean pulse height (Ip) of the pulse current (P) to a mean current value (Io) of the lamp current is within a range from 0.1 to 2; and

a ratio (tp/ts) of an effective pulse width (tp) of the pulse current (P) to the pulse repetition period (ts) of the pulse current (P) is within a range from 0.005 to 0.5.

2. (Currently Amended) A projection-type system for projecting an image onto a screen, comprising:

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a high-pressure discharge lamp lit by d.c. lighting;

a color filter having divided plural color segments disposed to have by
passing light emitted from [[a]] the high-pressure discharge lamp lit by d.c. lighting
pass through the divided plural color segments of a color filter sequentially —
characterized by comprising the high-pressure discharge lamp, — and

d.c. lighting means for lighting the high-pressure discharged lamp by feeding
a d.c. lamp current to the high-pressure discharge lamp while superimposing a pulse
current on the d.c. lamp current periodically, the pulse current being superimposed
in synchronism with at least one specific color segment, wherein:

a pulse repetition period (ts) of the pulse current (P) is within
a range from 0.2 msec to 20 msec;

a ratio (Ip/Io) of a mean pulse height (Ip) of the pulse current
(P) to a mean current value (Io) of the lamp current is within a range
from 0.1 to 2; and

a ratio (tp/ts) of an effective pulse width (tp) of the pulse
current (P) to the pulse repetition period (ts) of the pulse current (P)
is within a range from 0.005 to 0.5.

3. (Previously Presented) The system of claim 1, wherein the color filter comprises a rotatable color wheel divided into divided segments on a color basis.

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4. (Previously Presented) The system of claim 2, wherein:

the color filter comprises divided four color segments which are colored red, green, blue and white, respectively; and

the pulse current is superimposed within confines of the white segment.

5. (Previously Presented) The system of claim 2, wherein:

the color filter comprises divided three color segments which are colored red, green and blue, respectively; and

the pulse current is superimposed within confines of the red segment.

6. (Previously Presented) The system of claim 2, wherein a pulse superimposing power fed to the high-pressure discharge lamp is not less than 1% of a rated power of the high-pressure discharge lamp.

7. (Canceled)

8. (Previously Presented) The method claim 1, wherein the color filter comprises a rotatable color wheel divided into divided segments on a color basis.

9. (Previously Presented) The method claim 1, wherein:

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the color filter comprises divided four color segments which are colored red, green, blue and white, respectively; and
the pulse current is superimposed within confines of the white segment.

10. (Previously Presented) The method claim 1, wherein:

the color filter comprises divided three color segments which are colored red, green and blue, respectively; and
the pulse current is superimposed within confines of the red segment.

11. (Previously Presented) The method claim 1, wherein a pulse superimposing power fed to the high-pressure discharge lamp is not less than 1% of a rated power of the high-pressure discharge lamp.

12. (Canceled)